Technological Forecasting and Social Change

An International Journal

Volume 50, Number 1, September 1995

Special Issue

Biotechnology and the Future of Agriculture and Natural Resources

Douglas D. Parker and David Zilberman, Guest Editors

Contents

DOUGLAS B. PARKER and DAVID ZILBERMAN (Berkeley, CA)	Biotechnology and the Future of Agriculture and Natural Resources – An Overview	1
MAURIZIO G. PAOLETTI (Padova, Italy) **and DAVID PIMENTEL** (Ithaca, NY)	The Environmental and Economic Costs of Herbicide Resistance and Host-Plant Resistance to Plant Pathogens and Insects	9
SUZANNE L. HUTTNER (Berkeley, CA) **HENRY I. MILLER** (Stanford, CA) **and PEGGY G. LEMAUX** (Berkeley, CA)	U.S. Agricultural Biotechnology: Status and Prospects	25
GEORGE B. FRISVOLD and PETER CONDON (Washington, DC)	The Convention on Biological Diversity: Implications for Agriculture	41
MICHAEL OLLINGER and LESLIE POPE (Washington, DC)	Strategic Research Interests, Organizational Behavior, and the Emerging Market for the Products of Plant Biotechnology	55
BERND MARTENS (Tuebingen, Germany) **and THOMAS SARETZKI** (Hamburg, Germany)	Industrial Biotechnology in Austria, Germany, and Switzerland: Empirical Patterns of Its Relevance and Its Historical Development	69
CHRISTOPHER GASTON (Vancouver, BC) **STEVEN GLOBERMAN** (Bellingham, WA) **and ILAN VERTINSKY** (Vancouver, BC)	Biotechnology in Forestry: Technological and Economic Perspectives	79
MICHAEL BURTON (Manchester, UK)	The Impact of rBST on the Structure of the England and Wales Dairy Sector	93
	Column	
JOSEPH F. COATES (Washington, DC)	*From My Perspective* Agriculture in the 21st Century	105
	Book Review	
ARIEL DINAR (Washington, DC)	*Agricultural Extension: Worldwide Institutional Evolution & Forces for Change* (William M. Rivera and Daniel J. Gustafson, Eds.)	111

Technological Forecasting and Social Change

An International Journal

Volume 50, Number 2, October 1995

Contents

THOMAS BÜTTNER (New York, NY) **and ARNULF GRÜBLER** (Laxenburg, Austria)	The Birth of a "Green" Generation?: Generational Dynamics of Resource Consumption Patterns	113
THEODOROS ZACHARIADIS ZISSIS SAMARAS (Thessaloniki, Greece) **and KARL-HEINZ ZIEROCK** (Berlin, Germany)	Dynamic Modeling of Vehicle Populations: An Engineering Approach for Emissions Calculations	135
R. SCOTT FREY (Manhatten, KS)	The International Traffic in Pesticides	151
	Conceptual Note	
BRYAN P. BERGSON (Beachwood, OH)	On the Combination-Separation Principle: A Metaphor for Evolving System Processes	171
	Column	
JOSEPH F. COATES (Washington, DC)	*From My Perspective* The Future of Humor	185
	Book Reviews	
HAROLD A. LINSTONE (Lake Oswego, OR)	*Mindscapes in Management: Use of Individual Differences in Multicultural Management* (Magoroh Maruyama)	189
OSCAR HAUPTMAN (Ottawa, Canada and Melbourne, Australia)	*Dealing with Complexity: An Introduction to the Theory and Application of Systems Science* (Robert L. Flood and Ewart R. Carson)	191
JOCK R. ANDERSON (Washington, DC)	*Technology and New Institutions: A Comparison of Strategic Choices and Technology Studies in the United States, Denmark and Sweden* (Lars Fugslang)	193

Technological Forecasting and Social Change
An International Journal

Volume 50, Number 3, November 1995

Contents

JESSE H. AUSUBEL (New York, NY) **ARNULF GRÜBLER** (Laxenberg, Austria) — Working Less and Living Longer: Long-Term Trends in Working Time and Time Budgets — 113

CARL W. I. PISTORIUS (Pretoria, South Africa) **and JAMES M. UTTERBACK** (Cambridge, MA) — The Death Knells of Mature Technologies — 133

SUMIT K. MAJUMDAR (Ann Arbor, MI) — The Determinants of Investment in New Technology: An Examination of Alternative Hypotheses — 153

Column

JOSEPH F. COATES (Washington, DC) — *From My Perspective* What to Do When You Don't Know What You Are Doing — 167

Volume 50 Author Index — 171

Volume 50 Book Review Index — 171

Volume 50 Subject Index — 172

Author Index—Volumes 41–50 — 177

Subject Index—Volumes 41–50 — 181

Book Review Index—Volumes 41–50 — 207

Volume 50 Contents